

ABSTRACT

A principal object of the present invention is to provide low-cost techniques for readily detecting or quantifying dioxins using substances which are inexpensive and can be easily produced, and extracting dioxins using such substances. Dioxin binding peptides of the present invention are highly selective to dioxins, and are therefore capable of detecting or quantifying dioxins in test samples containing impurities. Dioxin binding peptides of the present invention are also capable of selectively extracting dioxins from impurity-containing test samples, and are therefore useful in simple pretreatment for quantifying and analyzing dioxins.